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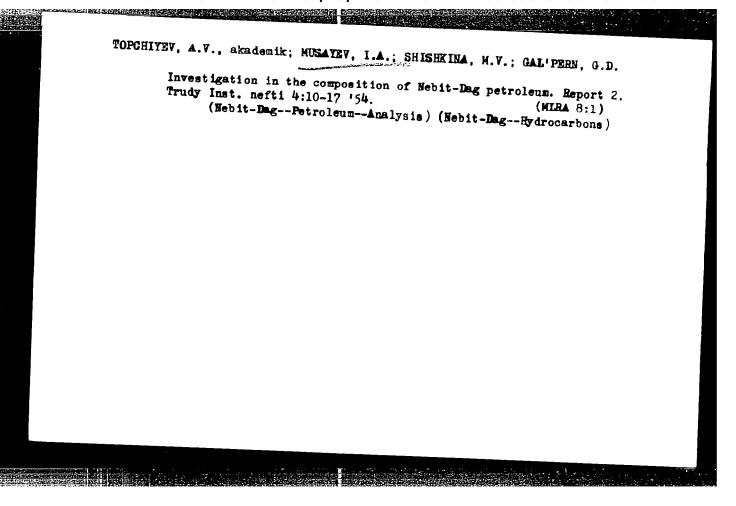
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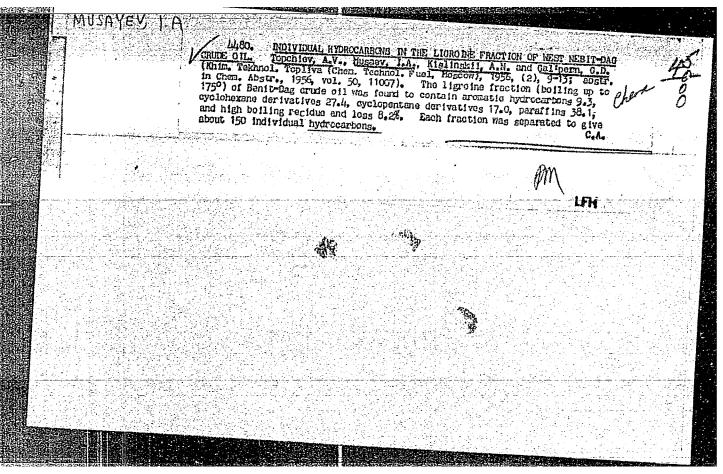
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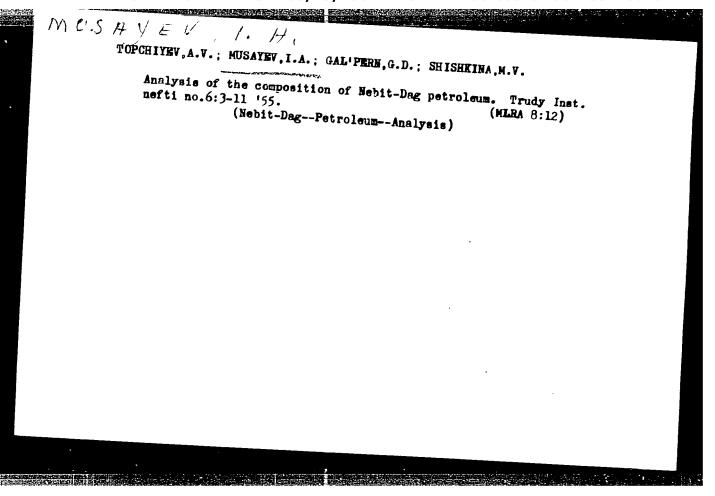
TOPCHIVEV. A.V., akademik; MUMAYEV, I.A.; CALIFERN, G.D.

Investigation in the composition of Nebit-Dag petroleum;
Report 1. Trudy Inst.nefti 4:3-9 '54, (NIRA 8:1)

(Nebit-Dag--Petroleum--Analysis)







MILDAYLO USSR/Chemical Technology - Chemical Products and Their Application. Treatment of Natural Gases and Petroleum. Motor Fuels. Lubricants, Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 62605 Author: Topchiyev, A. V., Gal'pern, G. D., Musayev, I. A., Kislinskiy, A. N., Institution: None Title: Individual Paraffinic and Naphthenic Hydrocarbons of the Gasoline Fraction of Nebitdag Petroleum Original Periodical: Dokl. AN SSSR, 1955, 103, No 6, 1035-1038 Abstract: The gasoline fraction of Nebitdag petroleum after removal of aromatic hydrocarbons by chromatography on silicagel, was divided by distillation into 43 narrow fractions. The first 11 fractions were used directly for spectral investigations, while the other were also subjected to spectral investigation after analytical dehydrogenation over platinized charcoal with iron, and in part after dearomatization Card 1/2

USSR/Chemical Technology - Chemical Products and Their Application. Treatment of Natural Gases and Petroleum. Motor Fuels. Lubricants, I-13

Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 62605

Abstract: of the obtained catalysts. The analyses showed that Nebitdag gasoline recovered up to 1500 contains about 140 individual hydrocarbons. Approximately 50% of its composition consists of 15 hydrocarbons. In maximal concentration are present: among the paraffinic, 2-methyl butane (4.50%); n-hexane (3.31%); n-pentane (2.69%); n-heptane (2.26%)and 2-methyl pentane (2.10%); of the cyclopentanic, methyl cyclopentane (5.03%); cis-1,3-dimethyl cyclopentane (2.16%) and trans-1,2dimethyl cyclopentane; of cyclohexanic, methyl cyclohexane (10.49%); cyclohexane (4.97%); 1,1,3-trimethyl cyclohexane (2.41%); ethyl cyclohexane (2.25%) and cis-1,3-dimethyl cyclohexane (2.22%). It was found that on dehydrogenation conversion of 1,1-dimethyl cyclohexane with cleavage of the methyl group as CH4 reaches 5% in the case of the 118-1190 fraction. Analogous conversion of 1,1,3-trimethyl cyclohexane yields traces of m-xylene. In the 96-1010 fraction is observed a conversion of about 5% of cis-1,2-dimethyl cyclopentane to the trans-form. In the 86-880 and 128-1360 fractions is observed a slight hydrogenolysis of cyclopentanes (up to 5%).

Card 2/2

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USSR/Chemical Technology - Chemical Products and Their Application. Treatment of Natural Gases and Petroleum. Motor Fuels. Libricants,

I-13

Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 62606

Author: Topchiyev, A. V., Musayev, I. A., Kislinskiy, A. N., Gal'pern, G. D.

Institution: None

Title: Individual Aromatic and Hexahydroaromatic Hydrocarbons of the Gaso-

line Fraction of the Romashkinsk Petroleum

Original

Periodical: Dokl. AN SSSR, 1955, 104, No 1, 93-95

Abstract: On study of the composition of the gasoline fraction (50-175°) of

the petroleum from the Romashkinsk deposit by the combined method of Kazanskiy and Landsberg (Izv. AN SSSR, OKhN, No 2, 1951, 100) it was found that it contains 5.46% aromatic (toluene, pseudo-cumene and m-xylene, etc, a total of 15 hydrocarbons) and 8% hexahydroaromatic hydrocarbons (methyl cyclohexane, ethyl cyclohexane, 1,3-dimethyl cyclohexane, cyclohexane and other, a total of 20 hydrocarbons).

Card 1/1

MUSAYEV, I. A.

Candidate of Chemical Sciences I. A. MUSAYEV, of the Institute for Petroleum, AS USSR, attended a conference on petroleum and petroleum products held in Moscow from 16 to 20 Jan. 1956. SO: VAN SSSR, #6, 1956, Unclassified

TOPCHITEV, A.V.; MUNAYEV, I.A.; KISLINSKIY, A.N.; GAL'PERN, G.D.

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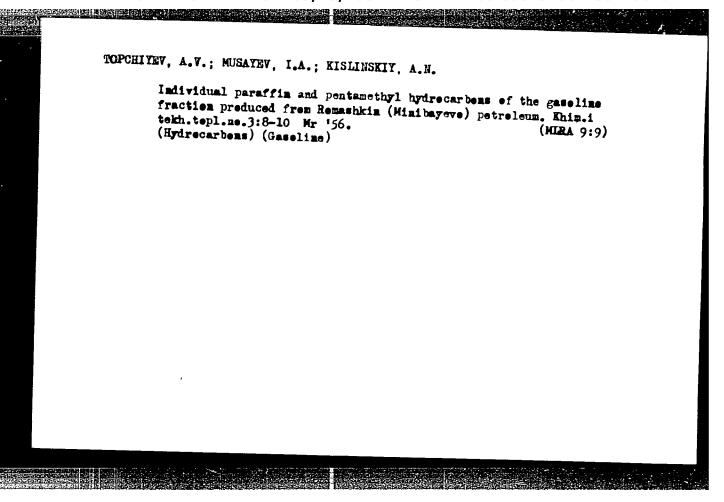
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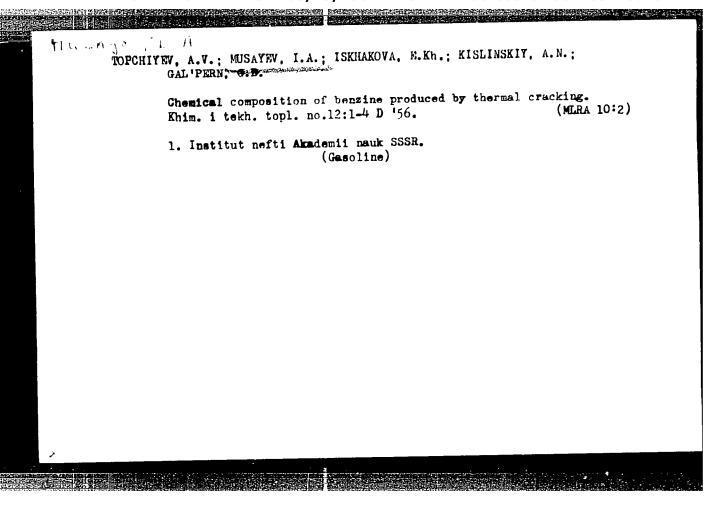
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156. (Mebit-Dag-Bensene derivatives)

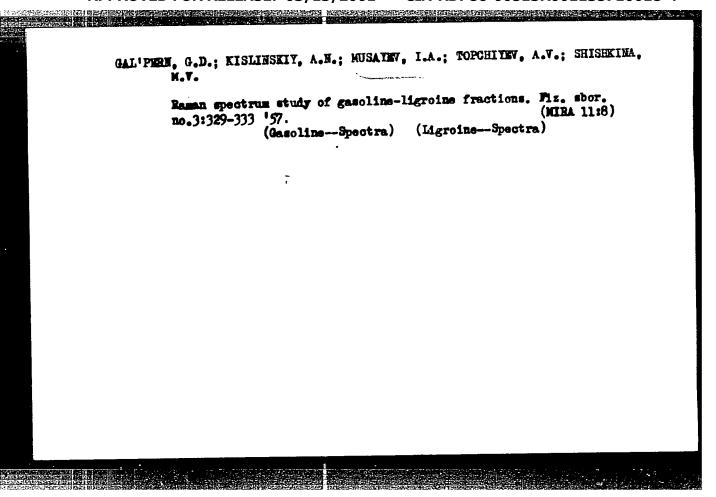
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TOPCHIEV, A.V.; ISKHAKOV, E.Kh.; MUSAYEV, I.A.; GAL'PERN, G.D.

Chromatographic separation of benzene produced by thermal cracking.
Khim. i tekh. topl. i masel no.11:26-33 N '57. (MIRA 11:1)

1. Institut nefti AN SSSR.

(Gasoline--Analysis) (Chromatographic analysis)

Tamonal 1

AUTHORS

Topchiyev, A.B., Academician

20-4-30/60

Musayev, I.A., Gal'pern, G.D.

TI TLE

The Chemical Composition of Gasolines Obtained by

Thermal and Catalytic Cracking.

(O khimicheskom sostave benzinov termicheskogo i

kataliticheskogo krekinga.)

PERIODICAL

Doklady Akademii Nauk SSSR, 1957, Vol. 115, Nr 4,

pp. 740-745 (USSR)

ABSTRACT

The knowledge of the unsaturated and other hydrocarbon groups which form part of the cracking products is very important. At present the problem of the influence of the raw material on the structure of the above-mentioned products is not clear enough. The solution of this problem will make it possible to come closer to a rational selection of raw materials as well as to produce mineral oil products of prescribed quality. Furthermore a number of possibilities for the chemical synthesis of mineral oil will be created. The systematic investigation of the cracking products, however, meets with specific

CARD 1/5

difficulties. A survey of the methods hitherto proposed by other authors is given; special reference is made

The Chemical Composition of Gasoline Obtained by Thermal and Catalytic Cracking.

to the combined treatment of sulfuric acid by hydroand dehydrogenating catalysis and the selective hydration. The present work employed the combined method. It contains: 1) the sulfuric-acid method for determining the total content of unsaturated and aromatic compounds, 2) determination of the per cent content of unsaturated hydrocarbons in fractions according to the iodine number and the molecular weight.

- 5) selective hydration of the unsaturated hydrocarbons at 80 at.excess pressure and 280-3000C,
- 4) dehydrogenation catalysis for the purpose of determining the nature of cyclanes (the unsaturated and the saturated ones),
- 5) the method of aniline points for the purpose of determining the group composition of the fractions which do not contain any unsaturated ones. Pressure distillates of the thermal and catalytic cracking of paraffin oil from Groznyy were taken as test objects. Gasoline from thermal cracking. After drying in a weak nitrogen flow it was fractionated and separated into standard fractions. Table 1 shows the yields and characteristic

CARD 2/5

20-4-30/60

The Chemical Composition of Gasoline Obtained by Thermal and Catalytic Cracking.

fractions. The fractions were divided into two parts; one part was investigated by the sulfuric-acid method, the other one was first selectively hydrated (over a copper catalyst). After sulphidization and distillation of the polymers the paraffin oil residue was thoroughly dehydrated on a platinum-iron catalyst. Table 2 gives the final results of the various hydrocarbon groups in this gasoline. Gasoline from catalytic cracking. Table 3 gives the characteristic of the initial fractions which were investigated in the same manner as above. For the 6-member naphthenes a detailed chemical group composition of gasoline from catalytic cracking (60-200°C) was determined. The final results are shown in table 4. By means of the combined method the precise group composition of gasolines from both types of cracking were investigated. It was proved that for the fractions 60-200°C of the thermal cracking gasoline a high content (44,7%) of unsaturated hydrocarbons is characteristic. The acyclic ones were

CARD 3/5

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The Chemical Composition of Gasoline Obtained by Thermal and Catalytic Cracking.

predominant (24,2%). The concentration of the unsaturated ones: cyclohexenes (7,2%) and cyclopentene (11,9 %) was marked. The comparatively high content of paraffins (28,8 %) in all fractions was close to that of the acyclic unsaturated compounds. An analogous analysis of the catalytic cracking gasoline showed that the smallest content of unsaturated hydrocarbons (almost the same percentage of the acyclic ones and those with one 5-member cycle) is characteristic for the fractions 60-2000C. The 6-member unsaturated cyclic compounds were almost completely absent (0,8%). The content of paraffinic hydrocarbons considerably surpasses that of olefins; the content of aromatic hydrocarbons rapidly increases with increasing temperature of extraction and reaches 60% for the fraction 150-200°C. The dienehydrocarbons with a conjugate bond are absent in both gasoline groups.

There are 4 tables and 13 Slavic references.

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The Chemical Composition of Gasoline Obtained by Thermal and Catalytic Cracking.

ASSOCIATION:

Petroleum Institute AN USSR

(Institut nefti Akademii nauk SSSR)

SUBMITTED:

July 9, 1956.

AVAILABLE:

Library of Congress.

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nusayer, I.A.

5(3); 11(4)

PHASE I BOOK EXPLOITATION SCV/2221

Akademiya nauk SSSR. Institut nefti

Trudy, t. 12 (Transactions of the Petroleum Institute, USSE. Academy of Sciences, Vol 12) Moscow, Izd-vo AN SSSR, 1958. 395 p. Errsta slip inserted. 1,700 copies printed.

Ed.: S. R. Sergiyenko, Professor; Ed. of Publishing House: K. G. Miyesserov; Tech. Ed.: V. V. Golubeva.

PURPOSE: The book is intended for scientists, engineers, and technicisms in the petroleum industry.

COVERAGE: This collection of articles describes the results of studies on the chesistry and technology of petroleum and gas conducted in the laboratories of the Petroleum Institute, Academy of Sciences, USSR, in 1956 and 1957. A new section "Petrochemical Synthesis and Technology of Petroleum" has been included in the collection of articles. A list of investigations published by the associates of the Institute in 1956 and 1957 and a list of dissertations for the Douter's and Candidate's degrees presented in 1956 and 1957 at open sessions of the Academic Council of the Petroleum Institute, Academy of Sciences, USSR, are given.

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Transactions of the Petroleum Institute, USSR (Cont.) SOV/2221 There are 549 references: 199 Soviet, 112 English, 29 German, 6 French, and 5 Japanese.	
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TOPCHIYEV, A.V.; MUSATEV, I.A.; ISKHAKOVA, E.Kh.; KISLINSKIY, A.N.; GALIPERN, G.D.

Chemical composition of thermally cracked gasoline, Report no.3:
Study of individual aromatic and saturated cyclic hydrocarbons.
Bokl, AN Amerb. SSR. 14 no.4r291-296 158. (MIRA 11:5)

(Cracking process)

SOV, 74-27-10-1,4

AUTHORS: Topchiyev, A. V., Kazanskiy, B. A., Musayev, I. A., Galleer.

G. D., Kusakov, M. M., Plate, A. F. (Moscow)

TITLE: Investigation of the Composition of the Light Fractions of

Soviet Crudes (Issledovaniye sostava legkikh fraktsly

sovetskikn nettey)

PERIODICAL: Uspekhi khimii, 1958, Vol 27, Nr 10, pp 1177-1197 (USSR)

ABSTRACT: This paper gives a chronological report on the fundamental publications on the investigation of the composition of the

light fractions of the Soviet mineral cils which have hitherto been made. In this connection special attention is payed to those publications which are edited by N. D. Zelinskiy, his collaborators and students (Refs 1-50). As may be seen from the present paper the current investigations of the mineral oil

fractions until the years 1937, 1939 were carried out mainly in connection with a chemical characterization of the light benzoin and benzene lighcin fractions of mineral cil. Only in the 1940's

methods were elaborated for the intensification of the individual investigation of the light fractions of the Seviet mineral cils.

Card 1/3 At the beginning of this paper reports are made on the first

SOV/74-27-10-1/4

Investigation of the Composition of the Light Fractions of Soviet Crudes

work carried out in 1881-83 (Bel'shteyn and Kurbatov). The diverse research institutes of mineralogy which have been established are chronologically mentioned (e. g.: 1924: the first central (Gosudarstvennyy Issledovatel'skiy neftyancy Institut) State Research Institute of Petroleum in Moscow); 1934: Institut goryuchikh iskopayemykh AN SSSR (Institute of Combustible Minerals AS USSR), diverse chemo-technical laboratories of the GINI (State Research Institute of Petroleum) as well as diverse research institutes in the Republics of the Union: Azerbay izhanskaya SSR, Uzbekskaya SSR, Turkmenskaya SSR, and others. After World War II methods of group analysis on a higher level were elaborated for the investigation of the petroleum narhtha fractions (with a further differentiation of the hydrocarbon subgroups). It was necessary to investigate in detail the composition of the hydrocarbons of the light mineral oil fractions because of the rapid development of air plane and automobile motor construction in the USSR. Due to this fact the demands concerning the quality of the motor fuel as well as of the crude oil shanged Especially in 1955 intensive investigations of the individual composition of the hydrocarbons of gasoline produced by crackiwere carried out by using the chromatographic distribution of

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SOV/74-27-10-1/4

Investigation of the Composition of the Light Fractions of Soviet Crudes

adsorption, the catalytic analytic hydrogenation and dehydrogenation as well as spectrum analysis by means of combined dispersion of light (Refs 108-160). In conclusion the authors are of the opinion that mere geological and geochemical factors are not sufficient for the production of experimentally founded theories on the formation and the change of petroleum under the conditions of migration. A great number of important data are necessary for the solution of the problem of the formation of petroleum, namely the nature, the concentration and the composition of the hydrocarbon components (or the non-hydrocarbon components); i. e., of the organosulfuric, nitrogen and oxygen compounds which belong to the composition of petroleum. There are 160 references, 160 of which are Soviet.

Card 3/3

AUTHORS: Topchiyev, A. V., Menber, Academy of SOV/20-120-5-35/67

Sciences, USSR, Kusayev, I. A., Iskhakova, Z. Kn., Kislinski,

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A. N., Gal'pern, G. D.

TITLE: Unsaturated Hydrocarbons in Thermal Cracking Gasoline (Nepredel'-

nyye uglevodorody benzina termicheskogo krekinga)

PERIODICAL: Dohlady Akademii nauk SSSR, 1958, Vol. 120, Mr 5,

pp. 1056 - 1058 (USSR)

ABSTRACT: After a short survey of their own previous papers in the said

field (Refs 1-3) the authors communicate their investigation results of the composition of the olefine part of the fraction 60 - 150°. From these fractions 10 narrow fractions were distilled off(Table 1). The molecular weights proved that these 10 fractions may be classified in 4 groups. The fifth fraction on the whole apparently consists of cycloolefines. The authors investigated the intricate group composition of the fractions by means of a combination of the following methods: the sulfuric acid method, the hydro- and dehydrogenation catalysis and the aniline

method. The content of cyclopentene hydrocarbons considerably exceeds the content of cyclohexene olefines in all fractions, as

Card 1/3

Unsaturated Hydrocarbons in Thermal Cracking Gasoline SOV/20-120-5-35/67

is shown in table 2. The distribution of cyclenes in the fractions was irregular, as, for example the content of cyclenes in the fractions Nr 8 and 10 exceeded the content of alkenes. The proportion of the first amounted in the mentioned fractions to 69 er 55%, respectively. The fifth fraction contained the greatest amount of cyclenes - 90%. The i dividual composition of the hydrocarbons was investigated by means of the spectra of the light combination scattering. The methods and the apparatus were the same as in (Ref 1). The final results of the determination of the composition of the hydrocarbon of the unsaturated jacoline part which was isolated from the fraction 60 - 150° of the thermal gasoline cracking are given in table 3. As is shown the alignatic olefines are on the whole represented by not ramified and only little ramified olefines, whereas the cyclenes belong to the 1and 2-substituted compounds. The not detected diolefines and olefines with quaternary carbon atoms either do not exist in the investigated gasoline or their quantities are outside the range of the spectral analysis. Saturated hydrocarbons were found in none of the fractions. There are 3 tables and 11 references, 7 of which are Soviet.

Card 2/3

Unsaturated Hydrocarbons in Thermal Cracking Gasoline SOV/20-120-5-35/67

SUBMITTED: February 26, 1958

- 1. Hydrocarbons--Fractionation 2. Gasoline--Analysis
- 3. Ethylenes--Analysis 4. Ethylenes--Spectra

Card 3/3

PUCATON, I. A., TOPONIYEV, A. V., LAME KOVA, . Mo., (L.ITESKIY, A. V., BAIPERIN, C. L.

"Studying the Cherical Composition of elizines Contailing Insaturation Hydrocarbons."

Report submitted at the fifth World Vetrolcum Congress, 30 Pay - 5 June 1959. "New York.

sov/65-59-7-12/12

Topchiyev, A.V., Musayev, I.A., Iskhakova, B.Kh., AUTHORS:

Sardanashvili, N.M., Kislinskiy, A.N. and Gal'pern, G.D.

Individual Hydrocarbon Composition of Thermal-Cracking TITLE:

Petrol (Individual'nyy uglevodorodnyy sostav benzina

termicheskogo krekinga)

PERIODICAL: Khimiya i tekhnologiya topliv i masel, 1959, Nr 7,

pp 60-64 (USSR)

ABSTRACT: The authors describe the continuation of their previous

work on the individual hydrocarbon compositions of petrol made by thermal cracking (Refs 1, 2 and 3). They now give data on the composition and properties of

the aromatic and naphthene-paraffin 60 - 150 °C fraction

Fractional distillation and a of the petrol.

chromatographic method previously developed (Ref 2) were used. Thirty individual paraffin hydrocarbons were

detected (twelve quantitatively), 42 naphthenes

The concentration of individual (22 quantitatively). hydrocarbons was irregular. It was shown that analytic dehydrogenation of the naphthene-paraffin fraction of

Card 1/2 petrol is accompanied by formation of about 1.5% unsaturated hydrocarbons, consisting of olefines and

sov/65-59-7**-**12/12

Individual Hydrocarbon Composition of Thermal-Cracking Petrol cyclo-olefines. M.S. Lentovskaya and N.N. Chekalova participated in the experimental work. There are 5 tables and 4 Soviet references.

Card 2/2

USCOMM_DC_61,354

66175 SCV/20-128-5-29/67 5(3) 5,3300 (B) Topchiyev, A. V., Academician, Musayev, I. A., Iskhakova, AUTHORS: E. Kh., Sardanashvili, N. M. Combined Method for Investigating the Detailed Composition of the Hydrocarbon Groups of Cracking Benzenes TITL: PERIODICAL: Doklady Akademii nauk SSSR, 1959, Vol 128, Nr 5, pp 966 - 969 (USSR) Separation of cracking benzenes into naphthene-paraffin-, unsaturated, and aromatic hydrocarbons was rendered possible ABSTRACT: by the chromatographic method worked out by the authors (Ref 1). The chemical composition of the individual benzenes (Refs 2-4) as well as benzene groups (Ref 5) may be investigated by combination of the chromatographic separation method, hydrodehydrogenation catalysis, and optical methods. This is of theoretical and practical interest because unsaturated and other products of thermal and catalytic processing of petroleum distillates are important potential sources. For this purpose a reliable investigation method is required. This paper gives a description of a method comprising the chromatographic separation of the standard fractions (60-175°) Card 1/3

66175

Combined Method for Investigating the Detailed SOV/20-128-5-29/67 Composition of the Hydrocarbon Groups of Cracking Benzenes

of cracking benzene into hydrocarbon groups in combination with hydrodehydrogenation catalysis. Thus, the chemical composition of 7 separated subgroups of saturated and unsaturated hydrocarbons may be determined. Distillates of three benzene samples were used which had been obtained from thermal and catalytic cracking of distillates of selected naphthene petroleum from Surakhany (extracted at the opytnaya baza Azerbaydzhanskogo nauchno-issledovatel'skogo instituta neftyanoy promyshlennosti = Experimental Base of the Azerbaydzhan Scientific Research Institute of Petroleum Industry, Baku). T. N. Buturlova participated in the investigation. Table 1 shows the properties and group composition of the narrow fractions of benzenes 12, 2, and 11, separated in connection with chromatographic adsorption. Table 2 shows detailed data on the hydrocarbon composition of the fractions of these three benzenes. Hence, it appears that the authors worked out the method mentioned in the title according to the combined method mentioned and the aniline method. The data quoted show the differences of the chemical composition of the benzenes investigated in relation to the differences

Card 2/3

66175

Combined Method for Investigating the Detailed SCV/2c-128-5-29/67 Composition of the Hydrocarbon Groups of Cracking Benzenes

of the raw materials and the processing methods. There are 2 tables and 8 Soviet references.

ASSOCIATION: Institut neftekhimicheskogo sinteza Akademii nauk SSSR (Institute of Petroleum-chemical Synthesis of the Academy of

Sciences, USSR)

SUBMITTED: June 26, 1959

Card 3/3



38688 s/510/60/014/000/001/006 D244/D307

Topchiyev, A.V., Nifontova, S.S., Musayev, I.A., Sanin, P. I., Suchkova, A.A., Sushchik, R.Ya., and Chekalova, N.N. 5 3260 AUTHORS:

lethod of isolating aromatic hydrocarbons from medium TITLE:

(kerosene)fractions of petroleum

Akademiya nauk SSSR. Institut nefti. Trudy, v. 14, 1960, SOURCE:

Khimiya nefti, 12 - 57

TEXT: Results are given of the separation of crude Romashinsk petroleum into distillation fractions, separation of aromatic hydrocarbons from the 175 - 300°C fractions, separation of the aromatic fractions into structural types and a study of group-structural composition of the monocyclic aromatic hydrocarbons. The crude material was from the Aktashsk area, Mikhaylovsk level, (depth 1583 - 1585 m).

Properties of the crude oil were as follows: d₄ 0.8612, flash point 35°C, viscosity 7.13 cs at 50°C, and 2.84 cs at 100°C, wax content - 9.86 4.9 % melting point of wax 50°C, content of silica gel resins - 9.86 %, asphaltene content 2.9 %, elemental composition C 84.85 %, H Card 1/3

s/510/60/014/000/001/006 D244/D307

Method of isolating aromatic ... 12.85 %, N 0.53 %, O 0.26 % and S 1.83 %. It was shown that narrow fractions of aromatic hydrocarbons can be separated by silica zel enromatography from a broad aromatic fraction from the 175 - 3000 cut. Individual hydrocarbons were oxidized with a 30 % solution of H₂O₂ at 75 - 80°C. It was shown that the hydrocarbon components are not oxidized under these conditions. However the aromatic fractions from 1.4950 to 1.55 underwent desulphurization. It was possible to use home produced Al203 to separate quantitatively synhaving nD thetic binary mixtures of monocyclic and bicyclic hydrocarbons. The napthene aromatic hydrocarbons of the type: cyclopentyltoluene, tetralin and indane mixed with tertiary iso-butyl-o-xylol were not well separated under the conditions used. The optimum conditions for the A203 separation of the aromatic fractions into monocyclic and bicyclic hydrocarbons were: Oil charge 30 g, column height 2 m, (composed of three parts) the diameter decreasing from 53 mm at the top to 20 mm at the bottom. Iso-octane, denzene and iso-propyl alcohol were used as eluents. The hydrocarbon compositon of the 175 - 300°C Card 2/3

Method of isolating aromatic ...

S/510/60/014/000/001/006 D244/D307

cut of the Romashinsk crude oil was as follows: Monocyclic aromatics hydrocarbons 13.11 %, bicyclic aromatic hydrocarbons 3.01 %, mixed aromatics 0.7 %, hexamethylene hydrocarbons 6.4 %, pentamethylene hydrocarbons 11.5 %, normal paraffins 17.5 %, iso-paraffins 41.2 % and organic compounds of S 6.58 %. Examination of the uv spectra of the narrow fractions obtained from the broad aromatic fractions having $n_{\rm D}^{20}=1.49-1.50$ and 1.50-1.51 established that they consist mainly of tetrasubstituted alkylaromatic hydrocarbons. There are 16 figures and 5 tables.

Card 3/3

中心的人员,但是因为非常的现在,他们也不是一个人,他们也不是一个人,他们也不是一个人,他们也不是一个人,他们也不是一个人,他们也不是一个人,他们也不是一个人,他

s/020/60/130/06/024/059 5(3), 15(3), 15(5) BO11/B015 Topchiyev, A. V., Lcademician, Musayev, I. A., Iskhakova, E. Kh., Sardanashvili, N. M., AUTHORS: Kislinskiy, A. N., Gal'pern, G. D. Investigation of the Individual Hydrocarbon Composition of Benzines Obtained From the Cracking of High-quality Surakhany TITLE: Petroleum " Doklady Akademii nauk SSSR, 1960, Vol 130, Nr 6, pp 1267 - 1269 PERIODICAL: (USSR) The authors of the present paper subjected the benzines they had investigated previously (Ref 1) to further investigation: B-12 (obtained by catalytic cracking of the petroleum - gas oil ABSTRACT: fraction), B-2 (obtained by thermal cracking of fuel oil), and B-11 (obtained by the thermal cracking of the petroleum - gas oil fraction). In the fraction up to 60°, the individual hydrocarbons (Table 2) were investigated in these benzines, in the fractions 60-1750 the aromatic hydrocarbons (Table 1). Table 3 contains data of the fractions up to 60°. The latter contain in each of the 3 benzines up to 30 individual hydrocarbons; e.g. in B-12 (in %): 2-methyl-butane 36.4; 2-methyl-butene-2 15.1; Card 1/3

Investigation of the Individual Hydrocarbon Com- S/020/60/130/06/024/059 position of Benzines Obtained From the Cracking B011/B015 of High-quality Surakhany Petroleum

2-methyl-pentane 8.6; n-butene (1- and 2-together 6.5), Benzine B-2 contains (in %): n-pentane 25.0; 2-methyl-butane 11.1; 2-methyl-butene-2 7.9; 2-methyl-pentane and 4-methylpentene-1 7.5 each; pentene-1 7.2. Benzine B-11 contains (in %): n-pentane 19.9; 4-methyl-pentene-1 12.0; 2-methyl-butene-2 10.0; pentene-1 7.7; 2-methyl-butane 7.4; cyclopentane 7.2. The influence of the processing method upon benzines from the same raw material is expressed by the different content of indi-vidual hydrocarbons. The fractions up to 60° may well be regarded as a possible raw material for the petroleum-chemical . synthesis. Table 1 shows that the total yield in aromatic hydrocarbons from B-12 is twice higher than that from B-11, and five times higher than that from B-2. The most important hydrocarbons are: in B-12: ps-cumene (27% of all aromatic hydrocarbons, 8.2% of the benzine fraction up to 175); toluene (18 and 5.4%), m-xylene (14 and 2%), ethylbenzene (10 and 3%); in B-11: toluene (30 and 4.6%), benzene (18 and 2.8%), m-xylene (9 and 1.4%), ethylbenzene 9%; in B-2: m-xylene (17 and 1.0%), toluene (14 and 0.94%), ps-cumene (13

Card 2/3

Investigation of the Individual Hydrocarbon Composition of Benzines Obtained From the Cracking of High-quality Surakhany Petroleum

and 0.87%), ethylbenzene (11 and 0.23%). G. N. Buturlova and M. S. Lentovskaya took part in the experiments. There are 3 tables and 3 Soviet references.

SUBMITTED: August 2, 1959

card 3/3

S/020/60/134/006/020/031 B016/B067

AUTHORS:

Topchiyev, A. V., Academician Nifontova, S. S., Musavev, I. A., Sanin, P. I., Suchkova, A. A., Sushchik, R. Ya., and Chekalova, N. N.

TITLE

Methods of Isolating Aromatic Hydrocarbons From Medium (Kerosene) Petroleum Fractions

PERIODICAL:

Doklady Akademii nauk SSSR, 1960. Vol. '34 No. 6, pp. 1378-1380

TEXT: The authors give the results of an investigation of the hydrocarbon composition of the petroleum fractions in which the aromatic hydrocarbons were chromatographically separated by using two adsorbents. A petroleum sample from the Romashki oil field was studied. The benzine fractions boiling out at 175°C and the asphalt-resin substances were removed. The thus treated petroleum was fractionated in a vacuum apparatus and the corresponding fractions were separated. A characteristics of the fraction 175 - 300°C is described. Among the different methods employed for investigating the chemical composition the chromatographic Card 1/3

Methods of Isolating Aromatic Hydrocarbons From Medium (Kerosene) Petroleum Fractions

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\$/020/60/134/006/020/031 B016/B067

isolation and separation of the aromatic hydrocarbons were dealt with in detail. The authors obtained good results by 2-step chromatography. first, all aromatic hydrocarbons are isolated and separated; the isolated substances are then separated according to their types. Isolation took place from the fraction by displacement chromatography on silica gel. Ethanol was used as displacing agent. Silica gel of type ACM (ASM) was treated by I. A. Musayev and E. Kh. Iskhanova prior to its use (Ref. 8). Seven fractions of aromatic hydrocarbons with the refractive indices of 1.49 to 1.55 were isolated. The sulfur-containing compounds were removed by oxidation with 25% $\rm H_2O_2$ solution in glacial acetic acid at 80°. The

sulfoxides formed were then chromatographically separated on silica gel ACK (ASK). The further sharp separation of the thus purified mixture of mono- and bicyclic arcmatic hydrocarbons was carried out chromatographical ly with aluminum oxide of type [V-MY] (GU-MKhP) of the Dneprodzerzhinskiy zavod (Dneprodzerzhinsk Plant) as adsorbent. For this purpose a 2 m high column was used. Successive isooctane, benzene, and isopropyl alcohol were used as desorbents. Under these conditions the monocyclic hydrocarbons can be quantitatively separated from the bicyclic ones. Table 1

Card 2/3

Methods of Isolating Aromatic Hydrocarbons From Medium (Kerosene) Petroleum Fractions

5/020/60/134/006/020/031

gives the results of the separation of tert.-isobutyl-ortho-xylene from butyl naphthalene and of tert.-isobutyl ortho xylene from diphenyl. This indicates that the chromatographic separation on silica gel produces much poorer results since in this case a high amount of intermediate fractions are formed. Among the above described conditions the total amount of monocyclic hydrocarbons (referred to the aromatic part) was 77.93%, that is 13.11% of the fraction 175.300°C, whereas the figures for the bicyclic were 17.91 and 3.01%, respectively. In conclusion the authors mention further components of the fraction described and their total percentual composition. There are 'table and 8 references: 4 Soviet ASSOCIATION:

Institut neftekhimicheskogo sinteza Akademii nauk SSSR (Institute of Petrochemical Synthesis of the Academy of Sciences, USSR) SUBMITTED:

July 21, 1960

Card 3/3

TOPCHIYEV, A.V., akademik; GU TSI-VEY [Ku Ch'i-wei]; MUSAYEV, I.A.

Study of the n-paraffinic hydrocarbons of the kerosene fraction of the Karamay petroleum of China. Dokl. AM SSSR 135 no.4:871-874 (MIRA 13:11)

1. Institut neftekhimicheskogo sinteza Akademii nauk SSSR. (Hydrocarbons)

S/062/61/000/001/008/016 B101/B220

AU THORS:

Topchiyev, A. V., Musayev, I. A., Iskhakova, E. Kh., and Sardanashvili, N. M.

TITLE:

Chemical composition of benzines produced by cracking of naphthene raw substance. Communication 1. Comprehensive method of investigating the detailed chemical group com-

position of cracking benzines.

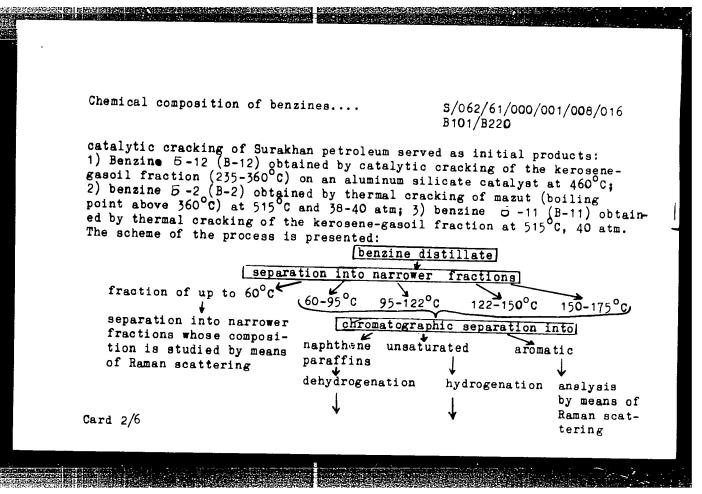
PERIODICAL:

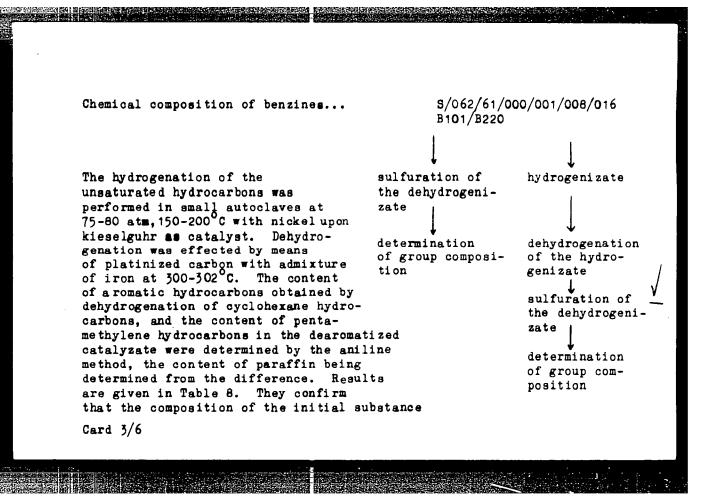
Card 1/6

Izvestiya Akademii nauk SSSR. Otdeleniye khimicheskikh nauk,

no. 1, 1961, 94-102

The aim of the authors was to find new raw material sources for the petrochemical synthesis. The present publication is a study of the effect of the chemical composition of the cracking material upon composition and structure of the products obtained by thermal or catalytic cracking. A previous article dealt with the chromatographic separation of cracking benzines into naphthene paraffins, unsaturated and aromatic hydrocarbons. In the present work this method has been combined with catalytic hydrogenation and with the aniline method. Specimens obtained by thermal and





Chemical composition of benzines...

S/062/61/000/001/008/016 B101/B220

and the method of its treatment affected the composition of the benzine obtained. T. N. Buturlova cooperated. G. D. Gal'pern and P. S. Maslov are mentioned. There are 8 tables and 11 references: 9 Soviet-bloc and 2 non-Soviet-bloc.

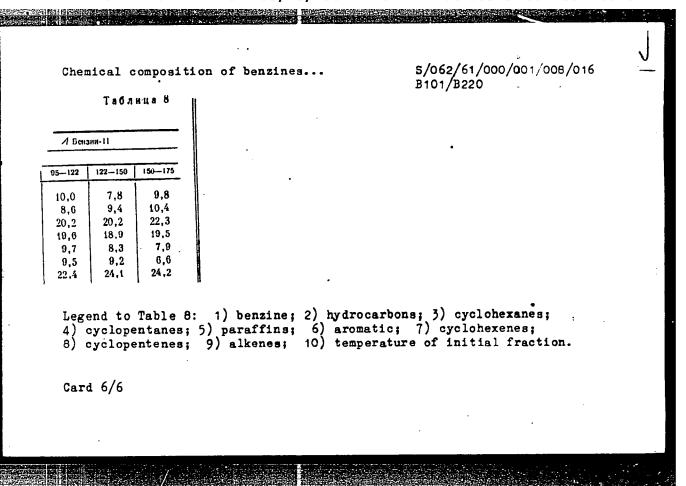
ASSOCIATION: Institut neftekhimicheskogo sinteza Akademii nauk SSSR

(Institute of Petrochemical Synthesis, Academy of Sciences USSR)

SUBMITTED: August 5, 1959

Card 4/6

	mposition of Детализирован			водородны				001/008 на исходя	
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Циклогексановые 3 Циклопентановые 4 Парафиновые 5 Ароматические 4 Циклогексеновые 7 Циклопентеновые 9 Алкены 7	2,8 17,8 36,6 5,1 1,0 10,5 26,2	13,6 13,4 15,3 34,0 3,8 11,4 8,5	9,8 7,3 12,0 61,4 1,7 3,5 4,3	10,4 10,5 15,4 59,7 — 4,0	3,3 7,5 38,4 1.1 2,0 9,7 37,9	8,3 10,4 31,1 5,1 6,3 13,3 25,5	7,3 10,1 33,3 10,2 7,2 9,1 22,8	5,4 6,7 38,5 12,8 6,3 4,9 25,3	3,7 8,5 26,7 12,5 3,6 10,7 36,3
Card 5/6									



TOPCHIYEV, A.V.; MUSAYEV, I.A.; ISAKHAKOVA, E.Kh.; SARDANASHVILI, N.M.;
KISLINSKIY, A.N.; GAL'PERN, G.D.

Chemical composition of gasolines obtained from the cracking of naphenic feed stocks. Report No.2: Individual hydrocarbon composition of cracking gasolines from Surakhan selective crudes.

Isv. AN SSSR. Otd. khim. nauk no.2:302-306 F '61. (MIRA 14:2)

1. Institut neftekhimicheskogo sinteza AN SSSR. (Gasoline) (Petroleum products)

MUSAYEV, I.A.; GU TSI-VEY; TOPCHIYEV, A.V.; SANIN, P.I.

Separation of Cg- C_{1/4} aromatic hydrocarbons by the gasliquid chromatography. Neftekhimila l no.4:459-472 Jl-Ag '61.

(MIRA 16:11)

1. Institut neftekhimicheskogo sinteza AN SSSR.

S/204/62/002/004/006/019 E075/E436

AUTHORS: Lav

Lavrovskiy, K.P., Brodskiy, A.M., Musayev, I.A., Sanin, P.I., Rumyantsev, A.N., Filatova, Ye.D.,

Iskhakova, E.Kh.

TITLE:

On the preparation of higher normal a-olefines by a high speed cracking of paraffinic petroleum products

PERIODICAL: Neftekhimiya, v.2, no.4, 1962, 487-494

Results are described of high speed cracking of soft and hard paraffin waxes, slack wax from Bitkov crude and waxy residue from Ozek - suat crude in a pilot plant. The plant was described previously (Khim. nauka i prom-stv, v.2, no.2, 1957). The waxes were heated to 900 - 1000 °C and mixed with powdered coke preheated They were fed into the reactor at the rate of to 600 - 730°C. The gases produced (23.0 to 47.4% by weight of 60 to 80 h⁻¹. total products) contained 33.1 to 52.7% wt. ethylene. The fraction of the liquid products from the slack wax boiling between 40 - 73°C For the and 73 - 100°C contained heptene-1 as the main component. hard wax cracking products, the fraction boiling up to 60°C contained 49.80% a-olefines (main component), about 20% conjugated dienes and 15 to 12% cyclenes. The content of a-olefines in Card 1/2

S/204/62/002/004/006/019 E075/E436

On the preparation of higher ...

the 60-175°C fraction was 70.4% (13.6% hexene-1, 17.1% heptene-1, 15% octene-1, 11.9% nonene-1, 12.8% decene-1). In general it was shown that the benzene from the high speed cracking of paraffin waxes consisted mainly of a-paraffins, their content in benzenes from the cracking of slack wax and waxy residue being much lower. There are 11 tables.

ASSOCIATION: Institut neftekhimicheskogo sinteza AN SSSR (Institute of Petrochemical Synthesis AS USSR)

Card 2/2

MUSAYEV, I.A.; GU TSI-VEY [Ku Ch'i-wei]

Laboratory rectification column for distilling easily crystallizing organic compounds. Zav.lab. 28 no.6:751-752 '62. (MIRA 15:5)

1. Institut neftokhimicheekogo sinteza AN SSSR. (Distillation apparatus)

MUSAYEV. I.A., HOSENBERG, L.M., NIFONTOVA, S.S., GALPERN, G.D., NECHITAILO, N.A., TERENTYEVA, YE.M., KUSAKOV, M.M., SANIN, P.I.

Investigating chemical composition of middle fractions of a sulphurous crude oil in the USSR

Report to be sumitted for the Sixth World Petroleum Congress, Frankfurt, 16-26 June 63

VAKHABOVA, Kh.; MUSAYEV, I.A.; NIYASOV, A.M.

Gas-liquid chromatography of normal raraffin hydrocarbons in Cheleken petroleum. Izv. AN Turk. StR.Ser. fiz.-tekh., khim. i geol.nauk no.6123-30 *63. (MIRA 18:1)

1. Institut khimii AN Turkmenskoy SSR.

EPF(c)/EWT(m)/T L 36473-65 UR/0204/64/004/004/0567/0571 ACCESSION NR: AP5010003 AUTHOR: Musayev, I. A.; Iskhakova, E. Kh.; Kimyantsev, A. N.; Kislinskiy, A. N. Sanin. P. I. TITIE: Investigation of olefins contained in gasolines of high-velocity cracking of paraffin petroleum products SOURCE: Neftekhimiya, v. 4, no. 4, 1964, 567-571 TOPIC TAGS: hydrocarbon, gasoline, paraffin wax, petroleum, petroleum refining, petroleum refinery product Abstract: The individual and group hydrocarbon compositions of fractions boiling up to 60° and the gasolines (60-175°) of high-velocity cracking of soft paraffin of sulfur petroleums and Ozek-Suatskiy masut was studied. The gasoline (60-175°) obtained from soft paraffin contained 74% olefins of normal structure, while the gasoline from Ozek-Suatskiy mazut contained 39% of such olefins. The light fractions (up to 60°) had a high content of elpha-olefina. Concentrates of alpha-olefina were isolated by chromatography on silica gel; distillation of the concentrates on a column with an efficiency of 45 theoretical plates gave a distinct fractionation of the C6-C10 alpha-olefins. High-velocity cracking of paraffin products thus was found **Card 1/2**

ACCESSION NR: AP5010003 to be a promising method of producing alpha-olefins. Orig. art. has 3 graphs and 4 tables. ASSOCIATION: Institut neftekhimicheskogo sinteza im. A. V. Topchiyeva AN SSSR Institute of Petrochemical Synthesis, AN SSSR)								
SUEMITTED; 19Nov63	ENCL: 00	SUB COLE: FP, GC						
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	하는 사람이렇게 하나는 하는 하네라는 경기에 하는 그는 사람들은 그는 것 같아요. 그 사람이 되는 하나라는							

L 36486-65 EPF(c)/EWF(j)/EWT(m) Pc-4/Pr-4 UR/0204/64/004/005/0793/0797 ACCESSION NR: AP5010564 AUTHOR: Musayev. I. A.; Sanin, P. I.; Suchkova, A. A.; Nifentova, S. S.; Sushchik, R. Ya. TIME: Determination of normal paraffins in middle petroleum fractions by a method of gas-liquid chromatography SOURCE: Neftekhimiya, v. 4, no. 5, 1964, 793-797 TOPIC TAGS: petroleum, paraffin wax, chromatographic analysis, bydrocarton Abstract: The chromatographic separation and determination of normal paraffina of the middle fractions (175-3500) of Romashkin petroleum were studied. Conditions were found for determining normal paraffins by gas-liquid chromstography on stationary liquid phases: polyphenylmethylsiloxane fluid PPMS-4 and cable oil. It was found to he more convenient to conduct the chromatographic separation at different temperatures, depending on thermolecular weight or on the boiling point of the hydrocarbons: for hydrocarbons up to C16 at 225°, and for hydrocarbons above C16 at 275°. The quantitative content of each hydrocarbon in the mixture was determined according to the chromatograms by two methods, which gave identical results: from the ratio of the areas of all the peaks and according to an internal standard (n-tridecane for one

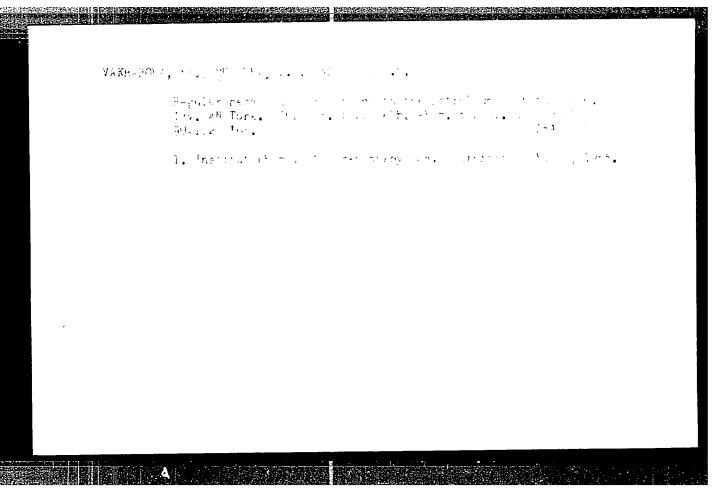
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VAKHABOVA, Kh.; MUSAYEV, I.A.; NIYAZOV, A.M.

Use of the method of gas-liquid chromatography in analyzing bicyclic aromatic hydrocarbons in Cheleken petroleum. Izv.

AN Turk. SSR. Ser. fiz.-tekh., khim. i geol. nauk no.612835 *64. (M:RA 18:4)

1. Institut khimii AN Turkmenskoy SSR.



NUSATEV, I. F.

Dissertation: "Vegetation of the Feeding Areas of the Sulok River Plain (Dagestan SSR)." Cand Biol Sci. Inst of Botany imeni V. L. Komarov, Acad Sci USSR, Moscow, Oct-Dec 53. (Vestnik Akademii Nauk, Moscow, Jun 54)

SO: SUM 318, 23 Dec 1954

USSR / Meadow Cultivation

Abs John: Ref Whine-Miol., Vol 13, 1730, 50407

Arthor : Musayev, I.

Inst : Institute of Animal Husbandry, Dageston Affiliate,

AS USSK

Title : Vegetation of Fodder Lands in the Salah fowlands

(Peculiarities of Formation, Distribution and

Development)

Orig Tab: Tr. In-Ta Zhivotnovodstva. Dag. fil. All 633%,

1055, 4, 105-142

Abstract: The vegetative cover of the Sulai Lowlands to repre-

sented by nomerous vegetative groups, in spite of the fact that it consists of a relatively small number of species (about 400). These vegetative

Card 1/3

USSE / Meadow Cultivation

I,

Abs Jour: Ref Zhur-Biol., Vol 13, 1958, 53427

As a result of cattle gracing the process of grass degradation actually prevails over processes of complication and development of vegetative groups. Surface improvements of land through irrigation, fertilization, and grass sowings are recommended as measures against pastere digressions. A diagram of successions and pacture digressions of vegetative groups of fodder land apendages in the Sulak Lowlands and the adjacent foothills is given.

Card 3/3

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135710018-4"

POST TAN

COUNTRY: USSR
CATRONNE: Mendow Cultivation.

ABS. JOHR.: RZhBiol., Ne.23. 1958. Na. 164591

AUTHOR: Museyev. Y. F.
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ABSTRACT: No obstract.

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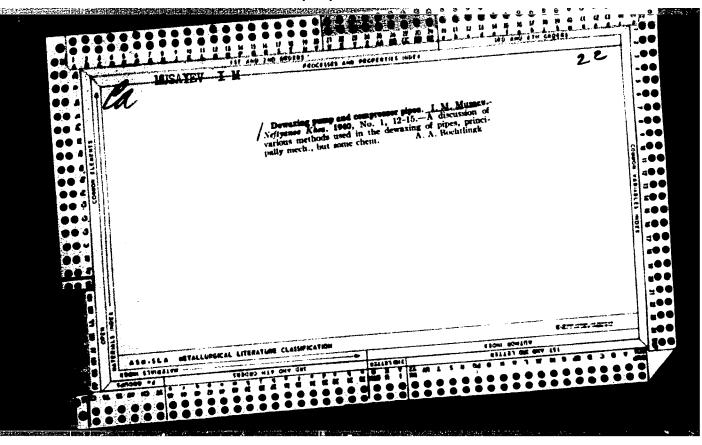
1. Glukhovskiy rayonnyy akusher-ginekolog. Iz ginekologicheskogo otdeleniya (zav. I.M.Musayev) Glukhovskoy rayonnoy bol'nitsy Sumskoy oblasti (glavnyy vrach V.M.Melekhin). Nauchnyy rukovoditel - zasluzhennyy deyatel nauki UkrSSR prof. I.I. Grishchenko.

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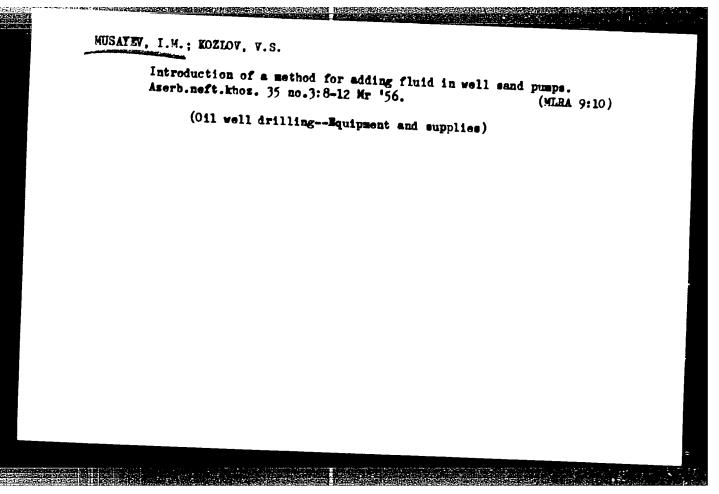
ANDREYEV, A.G.; MUSATEV, I.M., redaktor; UDALYY, A.M., tekhnicheskiy redaktor.

[Small-sise compressor lifts] Malogabaritnye kompressornye lifty.
Beku, Gos.nauchno-tekhn.izd-vo neftianoi i gorno-toplivnoi lit-ry,
Beku, Gos.nauchno-tekhn.izd-vo neftianoi i gorno-toplivnoi lit-ry,
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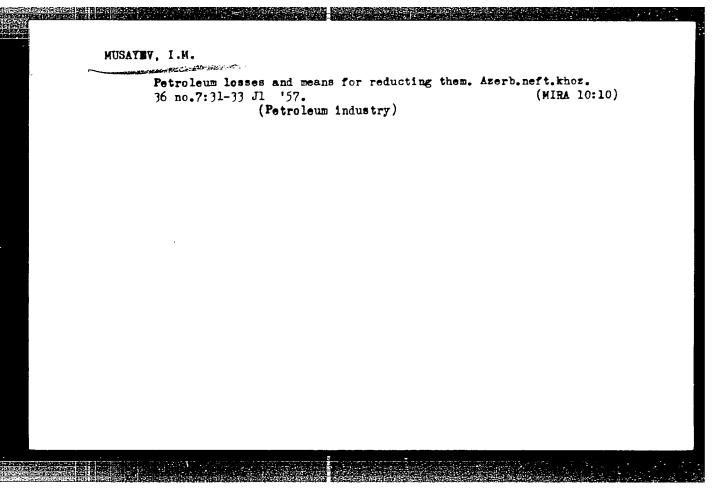
MADERA, Roman Solomonovich; NURIDZHANOV, Georgiy Dzhumshudovich; MUSAYEV, I.M., redaktor; AL'TMAN, T.B., redaktor izdatel stva

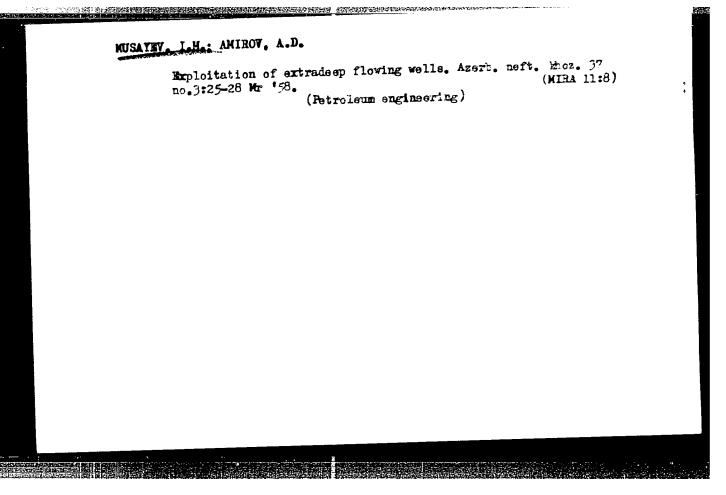
[New technology of lowering and pulling operations in underground repair of oil wells] Novaia tekhnologiia spusko-pod*emnykh operatsii v podzemnom remonte neftianykh skvazhin. Baku, Azerbaidzhanskoe gos. izd-vo neftianoi i nauchno-tekhn. lit-ry. 1956. 224 p. (MIRA 9:12) (Oil wells-Repairing)

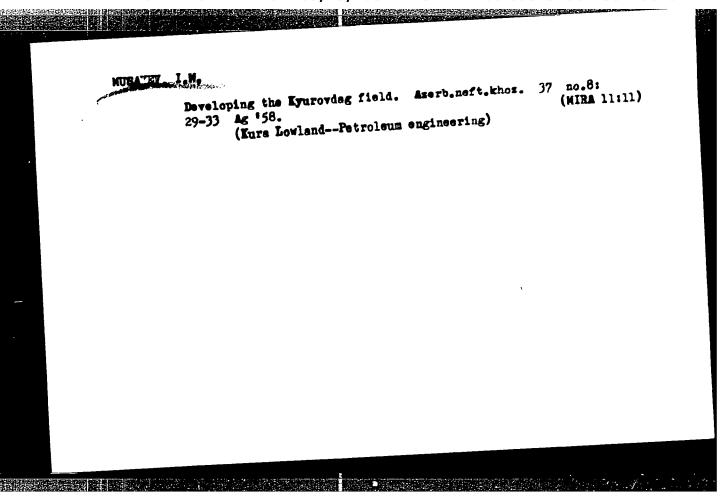


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(Ali-Bayramly District--Petroleum geology)

SOV/152-59-2-13/32 14(5) Musayev, I. M., Shapiro, B. A., Smol'nikov, H. V. AUTHORS:

Fighting Foreign Waters in the Course of the Exploitation TITLE:

of a Petroleum Deposit (Bor'ba s postoronnimi vodami v

protsesse razrabotki neftyanogo mestorozhdeniya).

Experiences of the Plant of Kyurovdag NPU "Shirvanneft" (Iz praktiki promysla Kyurovdag NPU "Shirvanneft'")

Izvestiya vysshikh uchebnykh zavedeniy. Neft' i gaz, PERIODICAL:

1959, Nr 2, pp 53 - 57 (USSR)

The main level of extraction in the southwestern branch of. ABSTRACT:

the Kyurovdag fold is the Level I, which is situated in the

upper part of the productive matter. In lithological

respects it represents a sequence of sands and clay. Under the petrolific part of the cross section layers of water were discovered, which after the decrease of ohm resistance

are marked in the core sampling diagrams. During the investigation of level I water broke through that mainly gathered in the bottom of the level and in lower lying

layers. The water possibly broke through because of the connection along the drill shaft between petrolific and water-

containing layers. The casting of petroleum cement is an Card 1/2

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Fighting Foreign Waters in the Course of the Exploitation of a Petrolsum Deposit. Experiences of the Plant of Kyurovdag NPU "Shirvanneft'"

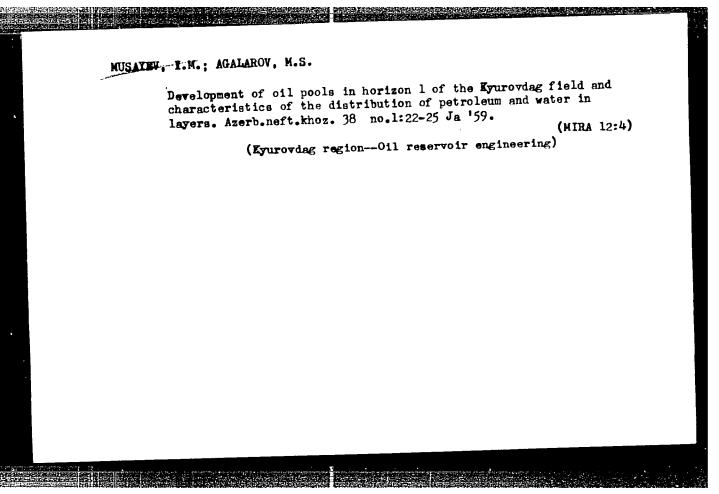
effective measure to abtain anhydrous petroleum from watery drillings and to lower the percentage of water in the final product. For the casting of the petroleum cement under the conditions prevailing in Kyurovdag no lowering or elevating work has to be done which permits work without elevators and derricks.

There are 2 figures and 1 table.

ASSOCIATION: Azerbaydzhanskiy industrial'nyy institut im. M.Azizbekova (Azerbaydzhan Industrial Institute imeni M.Azizbekov) and

NPU "Shirvanneft'"

Card 2/2



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l. Azerbaydzhanskiy nauchno-issledovatel'skiy institut po dobyche nefti. Predstavleno akademikom AN AzSSR S.M. Kuliyevym.